

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2005/000064

A. CLASSIFICATION OF SUBJECT MATTER  
INV. C12N9/10 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
C12N C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, EMBL

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EMBL EBI; Human DNA sequence contains the TPMT gene 9 March 2001 (2001-03-09), PELAN S.: XP002334144 Database accession no. AL589723 abstract	1,5
Y	WO 03/066892 A (EPIDAUROS BIOTECHNOLOGIE AG; SCHWAB, MATTHIAS; SCHAEFFELER, ELKE) 14 August 2003 (2003-08-14) cited in the application the whole document ----- -/-	1,5-8

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

7 July 2005

Date of mailing of the international search report

27. 04. 2006

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>MCLEOD H L ET AL: "The thiopurine S-methyltransferase gene locus -- implications for clinical pharmacogenomics" PHARMACOGENOMICS, ASHLEY PUBLICATIONS, GB, vol. 3, no. 1, January 2002 (2002-01), pages 89-98, XP002241496 ISSN: 1462-2416 page 636 - page 637</p>	1,5-8

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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  

Although claim 8 is directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  

1, 5-8 (partial)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: Claims 1, 5-8 (partial)

polynucleotide comprising a mutant allele of TPMT containing the SNP 1 as shown in Table 1.

Inventions 2-6: Claims 1, 5-8 (partial)

polynucleotide comprising a mutant allele of TPMT containing each of the SNPs 2-6 as shown in Table 1, respectively.

Invention 7: Claims 1, 2, 4-8 (partial)

polynucleotide comprising a mutant allele of TPMT containing SNP 7.

Invention 8: Claims 1,2, 4-8 (partial)

polynucleotide comprising a mutant allele of TPMT containing SNP 8.

Invention 9: Claims 1, 5-8 (partial)

polynucleotide comprising a mutant allele of TPMT containing SNP 9.

Invention 10: Claims 1-3, 5-8 (partial)

polynucleotide comprising a mutant allele of TPMT containing SNP 10.

Invention 11-16: Claims 1, 5-8 (partial)

polynucleotide comprising a mutant allele of TPMT containing the SNPs 11-16.

Invention 17: Claims 1-3, 5-8 (partial)

polynucleotide comprising a mutant allele of TPMT containing the SNP 17.

Invention 18, 19: Claims 1, 5-8 (partial)

polynucleotide comprising a mutant allele of TPMT containing the SNP 18 and 19.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

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Invention 20: Claims 1, 2, 4-8 (partial)

polynucleotide comprising a mutant allele of TPMT containing  
the SNP 20.  
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Invention 21-25: Claims 1, 5-8 (partial)

polynucleotide comprising a mutant allele of TPMT containing  
the SNPs 21-25.  
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Invention 26: Claims 1-8 (partial)

polynucleotide comprising a mutant allele of TPMT containing  
the SNP 26.  
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Invention 27, 28: Claims 1, 5-8 (partial)

polynucleotide comprising a mutant allele of TPMT containing  
the SNP 27, 28.  
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Invention 29: Claims 1-8 (partial)

polynucleotide comprising a mutant allele of TPMT containing  
the SNP 29.  
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Invention 30-41: Claims 1, 5-8 (partial)

polynucleotide comprising a mutant allele of TPMT containing  
the SNPs 30-41.  
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/000064

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 03066892	A	14-08-2003	AU	2003244498 A1	02-09-2003
			CA	2474800 A1	14-08-2003
			JP	2005516626 T	09-06-2005